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[Control, 1994. Control '94. Volume 2., International Conference on](#)
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Wang, X.A.; Mahajan, R.L.;
[Components, Packaging, and Manufacturing Technology, Part C, IEEE Transactions on](#)
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Volume 19, Issue 1, Jan. 1996 Page(s):19 - 26
Digital Object Identifier 10.1109/3476.484201
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Poo, A.N.; Ang, M.H., Jr.; Teo, C.L.; Qing Li;
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July 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
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Publisher: ACM Press

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We advocate the need for automated support to System Requirement Analysis in the development of time- and safety-critical computer-based systems. To this end we pursue an approach based on deductive analysis: high-level, real-world entities and notions, such as events, states, finite variability, cause-effect relations, are modeled through the temporal logic TRIO, and the resulting deductive system is implemented by means of the theorem prover PVS. Throughout the paper, the constructs and f ...

Keywords: finite variability, hybrid systems, state-transition systems, temporal logic, theorem proving

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